

AT15-13 TowCam#3- Seafloor Geology & Biology/ P
26 Nov 2006 (GMT)

TIME (GMT) Brief Shipboard Observations

5:09:32 First clear seafloor image, lobate lava
5:13:32 Broken up lava
5:15:17 Collapse area
5:15:47 Lobate lava
5:18:32 Collapse area
5:18:47 Lobate lava
5:26:32 Hackly lava
5:27:32 Lobate lava
5:30:47 Hackly lava
5:34:32 Lobate lava
5:45:47 Collapse area
5:47:17 Hackly lava
5:47:47 Lobate lava
6:03:02 Small collapses through lobate lava
6:06:02 End of small collapses
6:08:47 Start of area of collapsed lobate lava, fuzzy appearance to edges; ?corres
6:20:17 Very rubbly lava
6:23:02 Area of large collapses through lobate lava
6:29:17 Large anemone at far left of image
6:36:32 Orange staining on lobate lava
6:36:48 Extinct sulphide chimney complex surrounded by lobate lava. GOOD IMAGE
6:39:33 Collapses in lobate lava
6:45:02 Start of hackly lava
6:46:17 Back to lobate lava collapses
6:49:48 Lobate lava over hackly lava
6:51:18 Collapses in lobate lava
6:52:33 Hackly lava
6:53:03 Start of sheet flow
6:54:33 Lobate lava over sheet flow. GOOD IMAGE
6:55:53 Hackly lava
6:56:18 Lobate lava over sheet flow
6:57:03 Small sheet flow
6:57:48 Lobate lava
6:59:33 Collapses in lobate lava
7:08:18 Big collapses
7:10:33 Orange stained lava in small collapse pit
7:14:33 Some microbial mats
7:20:18 Mostly collapsed lava rubble
7:26:48 Edge of trough
7:32:48 Big lava pillar. GOOD IMAGE
7:35:48 Running along trough floor with lots of lava pillars
7:45:03 Orange staining in trough floor
7:46:03 More orange staining
7:48:03 Orange stained lava

7:49:18 Orange stained lava pillar
7:51:33 Small lobate
7:52:03 Lava rubble again
7:53:18 Collapses in lobate lava
7:57:03 Orange staining in hackly lava
7:57:33 Lobate lava
7:59:18 Edge of trough
7:59:33 Swimming octopus. GOOD IMAGE
8:03:03 Lobate lava
8:05:48 Orange stained rubbly lava
8:09:18 Some microbial mats
8:13:48 Some microbial mats and crabs
8:15:33 Lava pillars
8:18:33 Big lava pillar. GOOD IMAGE
8:20:18 Octopus on lava rubble
8:24:48 Edge of sheet flow
8:25:33 Back to lava rubble
8:31:03 Start of extensive diffuse flow area with microbial mats in cracks, galathea
8:34:33 Very fuzzy lava
8:35:33 End of diffuse flow area
8:37:33 Orange stained rubbly lava
8:40:03 Lobate lava
8:41:03 Diffuse flow to bottom left
8:41:33 Lava rubble
8:44:48 Edge of trough
8:46:03 Orange stained rubbly lava
8:47:48 Start of smoker chimney complex
8:48:18 Smoker chimney complex, alvinella on chimneys, brachyurans. GOOD IM
8:49:03 End of chimney complex
8:50:03 Younger lava around older lava pillars. GOOD IMAGE
8:51:03 Hackly lava, N-S running fracture to right
8:53:18 Fracture now on left
8:54:48 End of fractures
8:58:03 More fractures
9:03:48 Empty mussel shells on hackly lava surface
9:04:18 Hackly lava with dead mussel shells lapping older fractured lava. GOOD I
9:05:03 End of dead mussel field
9:08:03 Edge of trough
9:12:23 Orange staining in hackly lava
9:14:48 Fracture at edge of trough
9:17:18 Hackly lava
9:20:18 Fuzzy lava to right
9:22:48 Sheet flow
9:26:33 Lava rubble
9:28:18 Orange stained rubbly lava
9:31:03 Start of diffuse flow area with fuzzy lava, microbial mats in cracks, galathea
9:31:33 Octopus bottom left
9:31:48 End of diffuse flow area
9:32:33 Lobate lava over hackly lava

9:32:48 Lobate lava
9:35:33 Fuzzy lava rubble
9:37:18 Small sheet flow
9:37:33 Live serpulids on fractured sheet flow
9:39:03 Edge of trough, lava pillars
9:40:48 Big lava pillar, crab and seapen. GOOD IMAGE
9:43:18 Start of mussel bed on right, serpulids and barnacles on sticking up rock.
9:44:18 End of mussel bed
9:44:33 Lava pillars
9:45:18 Big lava pillar
9:46:33 Start of another mussel bed, lots of dead shells, ?clams, galatheids
9:47:33 End of mussel bed, serpulids on rock
9:49:03 Start of another mussel bed, lots of dead shells, ?clams, galatheids, serp
9:50:03 End of mussel bed
9:50:48 Big collapses in lobate lava
9:52:18 Edge of trough
9:54:03 Fuzzy lava on edge of trough
9:58:33 Small extinct sulphide, brachyurans and galatheids. GOOD IMAGE
9:58:48 Extensive collapse
9:59:33 Edge of trough
10:01:03 Edge of trough to left
10:03:03 Start of area of collapses in lobate lava, sheet flow visible underneath. G
10:05:18 Lobate lava
10:07:18 Collapses in lobate lava
10:17:03 Orange staining on lobate lava
10:22:33 Rubbly lava
10:26:03 Start of extensive sheet flow area
10:28:48 Bathysaurus fish
10:32:03 Swirls in sheet flow, octopus in left on. GOOD IMAGE
10:36:48 Hackly lava
10:37:18 Start of diffuse flow area with fuzzy lava, microbial mats in cracks, galat
10:39:03 Fuzzy lava rubble
10:40:33 End of diffuse flow area
10:41:03 Sheet flows
10:41:48 Orange stained rubbly lava
10:45:18 Small diffuse flow area, fuzzy rocks, galatheids
10:52 Fractured sheet flows
10:54:48 Orange stained lava
10:56:48 Hackly lava
11:00:48 Orange stained lava
11:08:03 Last image of hackly lava

sponds to Towcam small temp raise

GE

ids, brachyurana, perhaps Tevnia

AGE. Corresponds to Towcam 0.1 degrees temp anomaly

MAGE

ids, brachyurans

. GOOD IMAGE

ulids, barnacles, ?Riftia tubes. GOOD IMAGE

OOD IMAGE

reids; ?corresponds to Towcam 0.05 degree temp anomaly